Conductive Silver Paste
P2546

Application
P2546 Polymer Ag Conductor has been designed for use as a termination for potentiometer applications on rigid boards.

P2546 Polymer Conductor is formulated and processed to be RoHS compliant.

Typical Formulation Properties

Viscosity: 27 ± 3 Pa.s at 25 °C using a Brookfield HBT Viscometer with an SC4-27 spindle and small sample adaptor 10 rpm.

Solids Content: 72.0 ± 1.5%

Line Resolution: 15 mil lines and spaces (375 μm)

Storage and Shelf-life: This product should be stored in tightly sealed containers at 5 °C, in a refrigerator. Shelf life of a factory seal container is minimum 4 months from date of shipment when properly stored. Allow unopened jars to stabilize to room temperature prior to use.

Typical Process Parameters

Thinning: This material is formulated at the appropriate viscosity for the intended application. Thinner Emflow 228 may be used to replace solvent loss.

Printing: A 280-mesh stainless steel screen with 25 mm emulsion thickness will typically yield a wet film thickness of 35 ± 5 mm.

Leveling: 10 - 15 minutes at room temperature.

Curing: 165°C for 30 minutes in an oven with forced air flow or an equivalent conveyor drier.

Cleaning: Butyl carbitol acetate followed by iso-propyl alcohol. Do not use acids, alkalis or chlorinated solvents as they may cause polymerization.

Typical Cured Film Properties

Film Thickness: 25 ± 5 μm

Resistivity: ≤ 75 mΩ/sq at 25 mm cured film thickness

Adhesion: 5B as per ASTM standard D3359 (method B) using 610 tape.

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